

FIG. 1

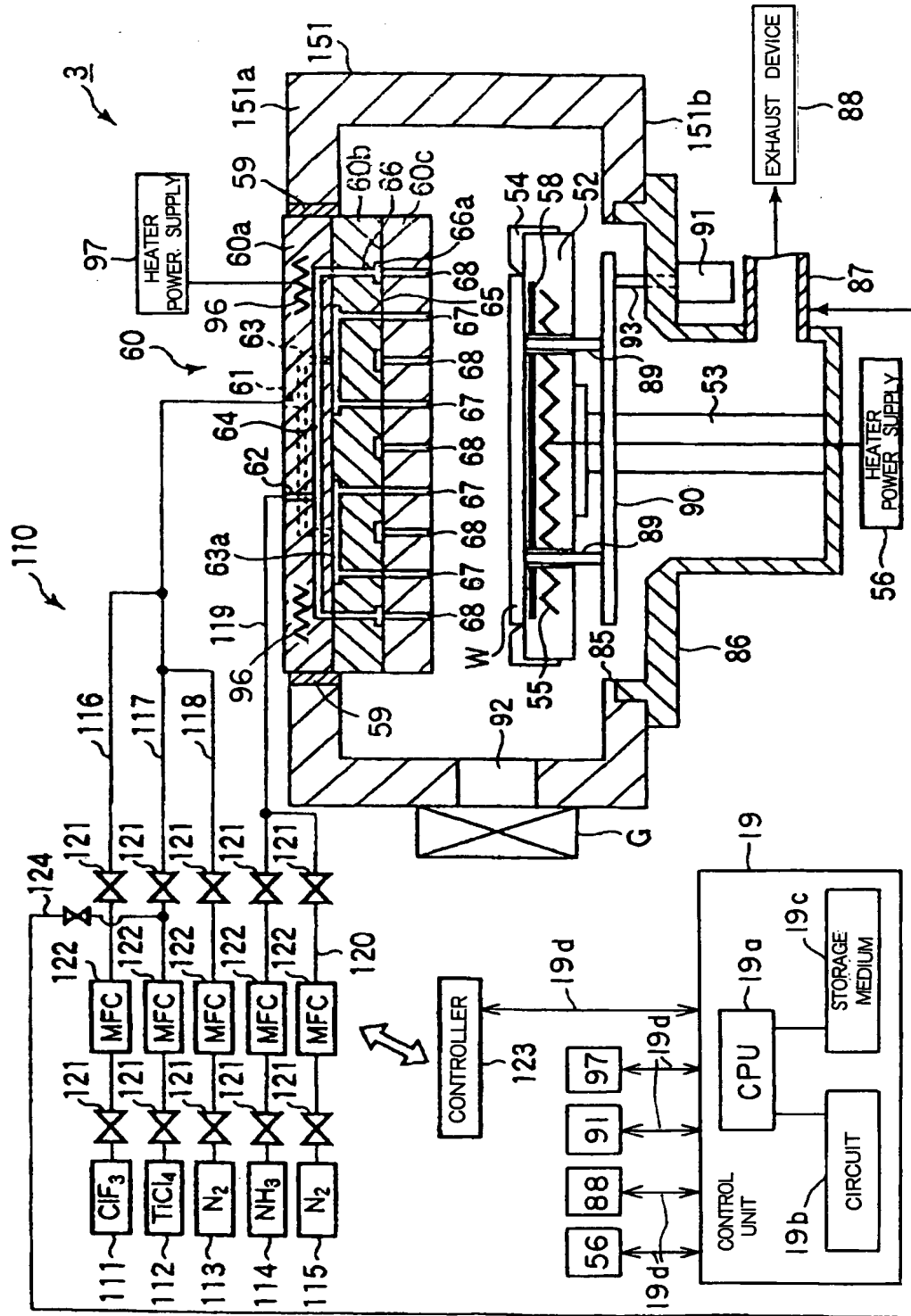
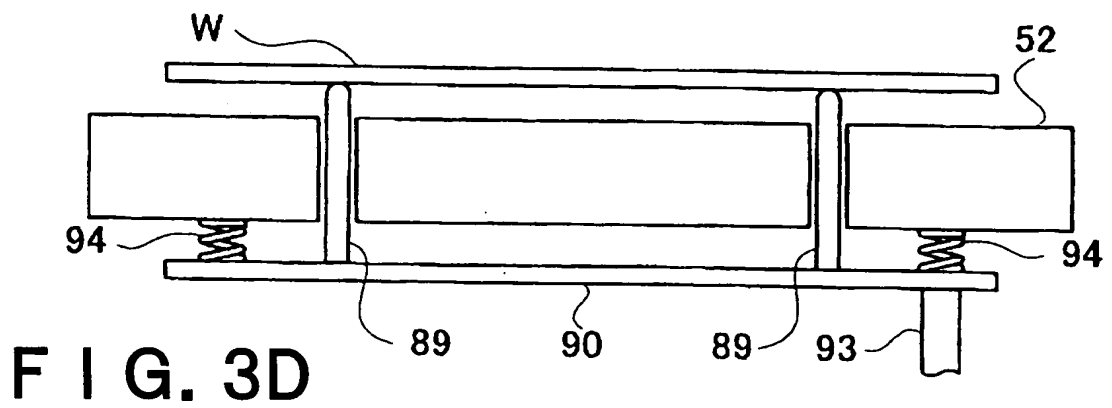
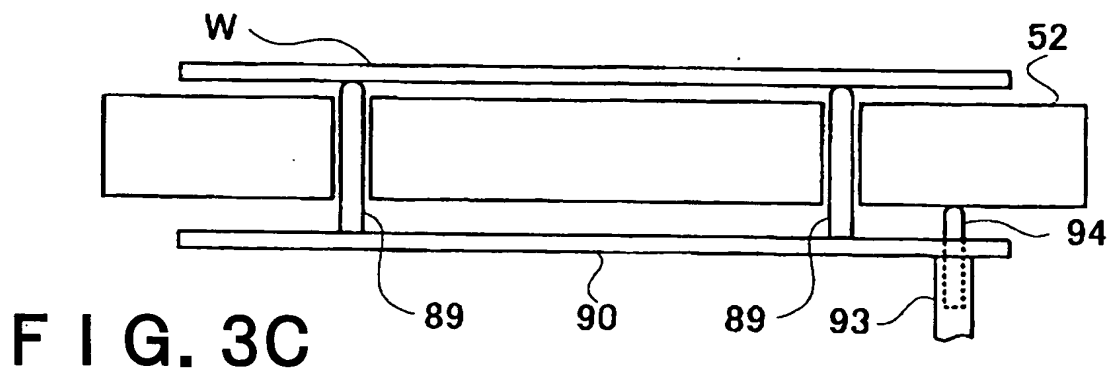
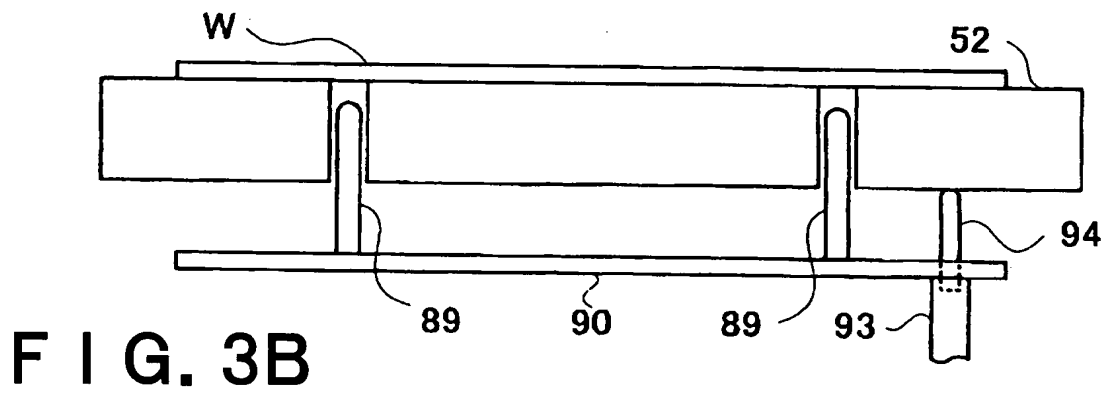
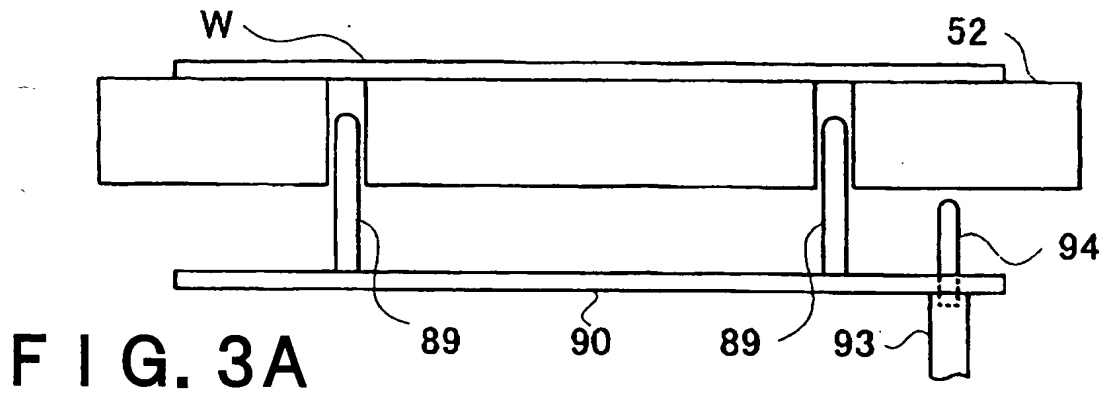


FIG. 2



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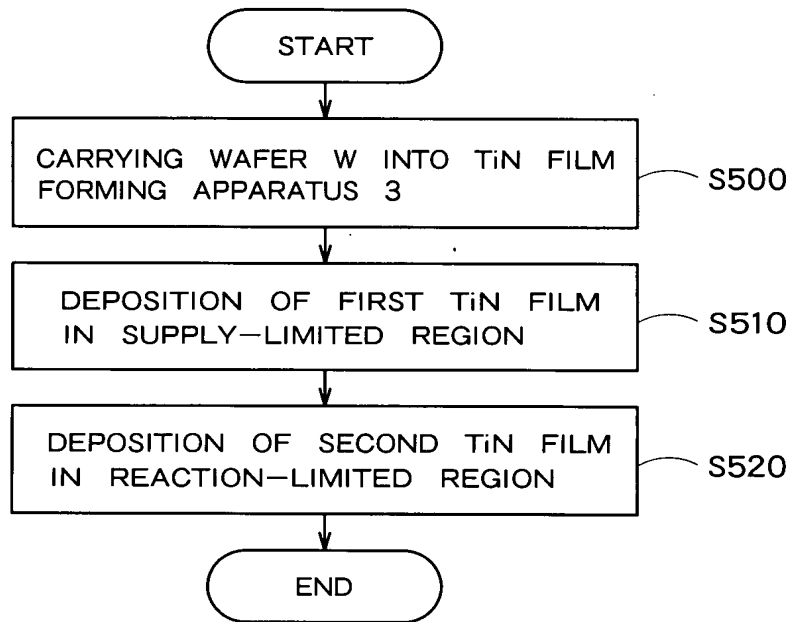


FIG. 4

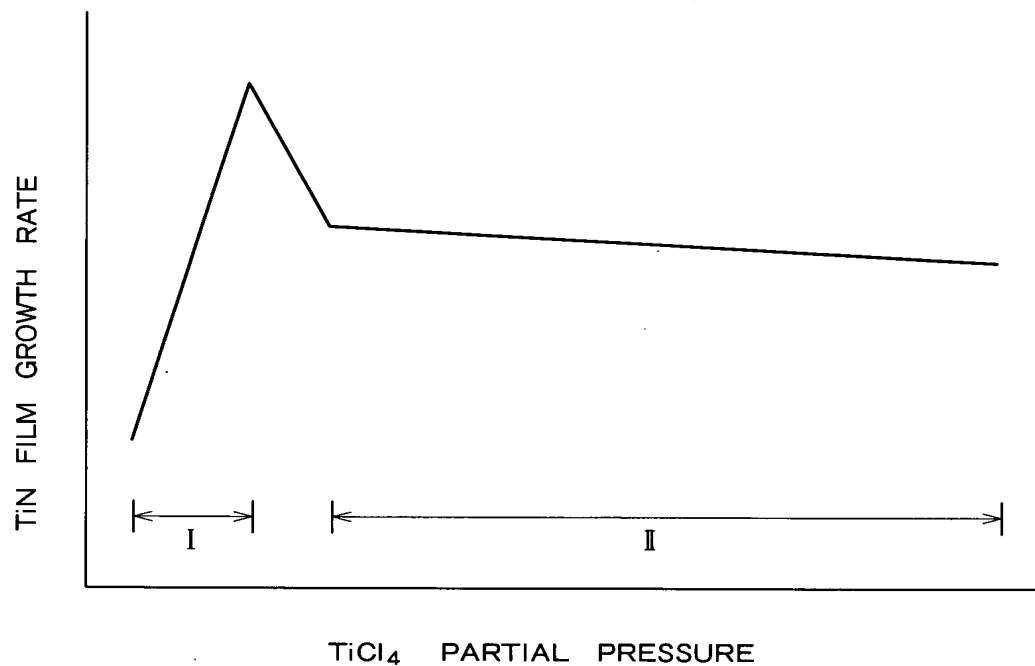


FIG. 5

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| TOTAL PRESSURE (Torr) | TOTAL FLOW RATE (sccm) | NH ₃ FLOW RATE (sccm) | TiCl ₄ FLOW RATE (sccm) | PARTIAL PRESSURE RATIO |
|-----------------------------|------------------------------|--|--|------------------------------|
| 5 | 800 | 45 | 6.0 ~ 9.0 | 0.13 ~ 0.20 |
| 5 | 1100 | 60 | 8.0 ~ 12 | 0.13 ~ 0.20 |
| 5 | 1600 | 90 | 12 ~ 18 | 0.13 ~ 0.20 |

F I G. 6A

| TOTAL PRESSURE (Torr) | TOTAL FLOW RATE (sccm) | NH ₃ FLOW RATE (sccm) | TiCl ₄ FLOW RATE (sccm) | PARTIAL PRESSURE RATIO |
|-----------------------------|------------------------------|--|--|------------------------------|
| 5 | 800 | 45 | 9.0 ~ 65 | 0.20 ~ 1.44 |
| 5 | 1100 | 60 | 12 ~ 90 | 0.20 ~ 1.50 |
| 5 | 1600 | 90 | 18 ~ 130 | 0.20 ~ 1.44 |

F I G. 6B

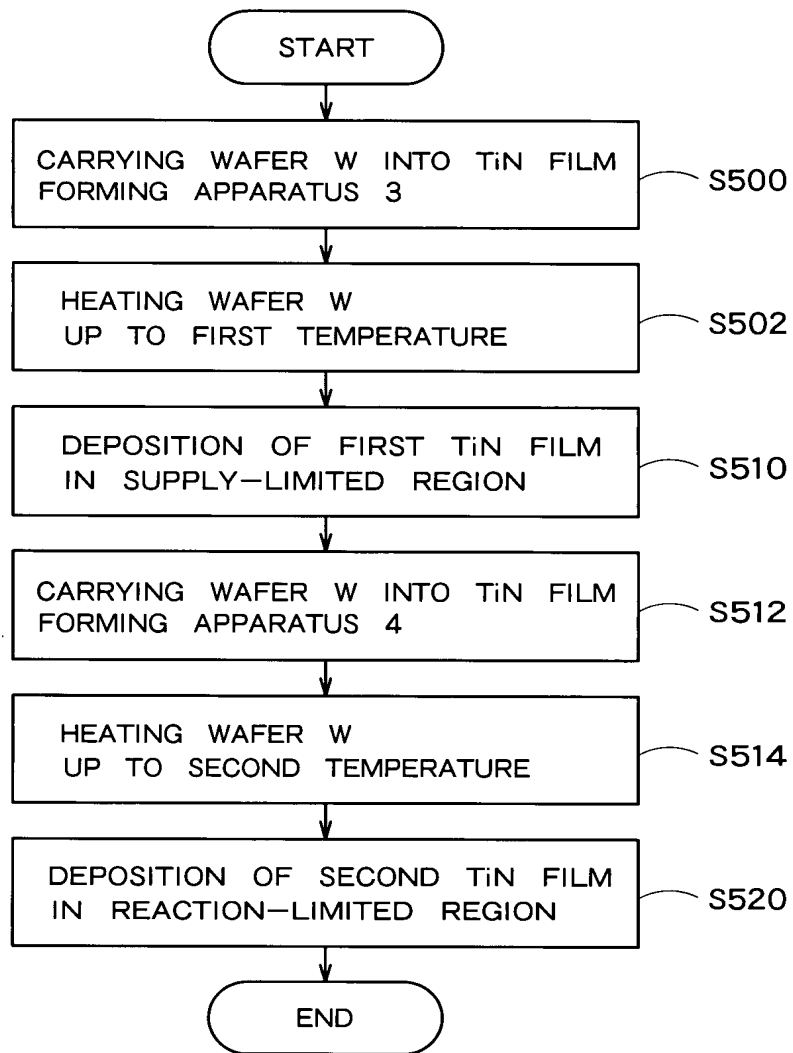


FIG. 7

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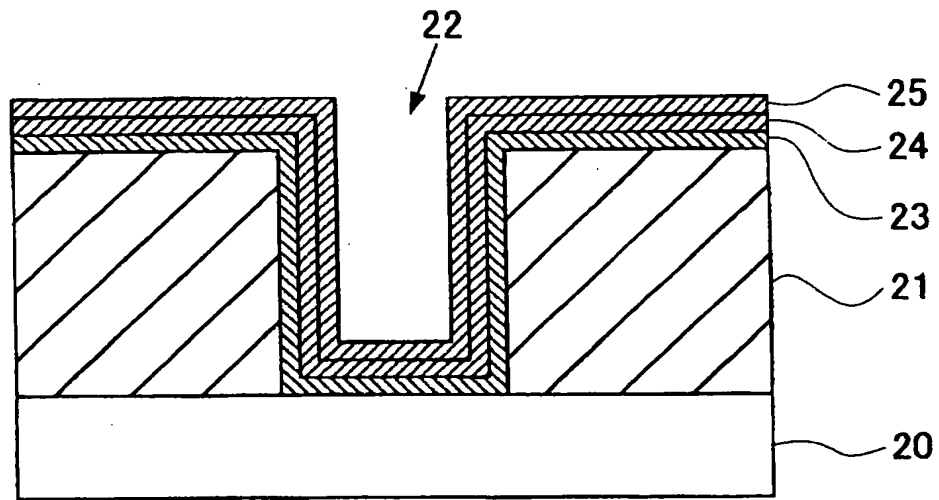


FIG. 8A

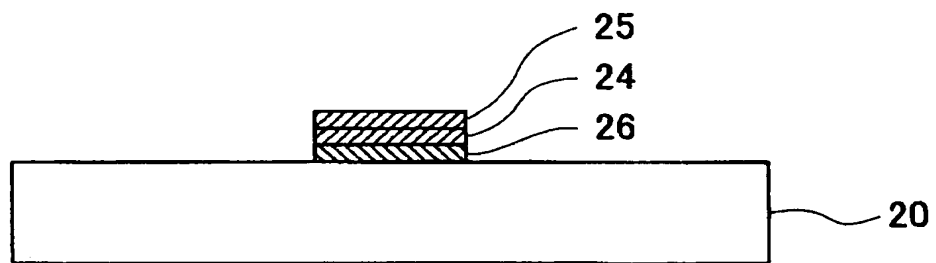


FIG. 8B

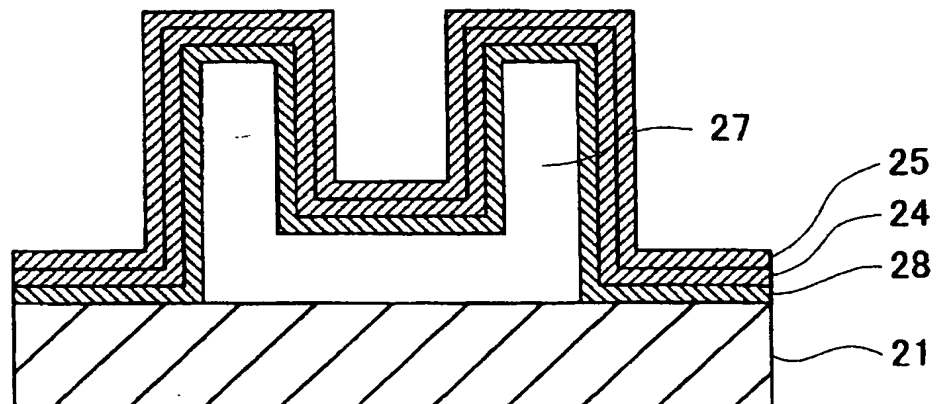


FIG. 8C